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The claims defining the invention are as follows:

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1. A grinder head including at least:  
a grinding bowl for holding a charge of material to be ground provided with a boss  
fixed to a bottom wall of the bowl and projected into the bowl; and,  
a grinder ring locatable over the boss and freely moveable within the bowl.
  2. The head according to claim 1 wherein said grinder ring, boss and bowl are  
relatively dimensioned so that when an inner circumferential surface of the  
grinding ring is in contact with a side wall of the boss an outer circumferential  
surface of the grinder ring is spaced from the inner surface of the side wall of the  
bowl, whereby the grinder ring is freely moveable within said bowl.
  3. The head according to claim 1 or 2 wherein said grinder ring has a lower axial end  
which is disposed nearest said bottom wall when said head is in use, and an  
opposite upper axial end, and wherein a portion of the outer circumferential  
surface of said grinder ring adjacent said lower axial end is substantially conical in  
shape with said portion decreasing in radius in the direction from the lower axial  
end toward the upper axial end.
  4. The head according to any one of claims 1-3 wherein said grinder ring is provided  
with a handle for manual handling of said grinder ring.
  5. The head according to claim 4 wherein said handle is in the form of an inflexion  
formed about the outer circumferential surface of said grinder ring above said  
substantially conical portion.
  6. The head according to any one of claims 1-5 wherein said side wall of said boss  
and an inner circumferential surface of said grinder ring are relatively shaped to  
co-act with each other for grinding a portion of the charge therebetween.
  7. The head according to any one of claims 1-6 wherein said side wall of said boss

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and said inner circumferential surface of said grinder ring are relatively shaped so that on contact of said inner circumferential surface of said grinder ring with said side wall of said boss said grinder ring is urged to ride up said boss so that said grinder ring orbits in an inclined plane about said boss forming a moving zone between said lower axial end of said grinder ring and said bottom wall of the bowl for grinding the charge.

8. The head according to claim 1-7 wherein said boss is detachably fixed to said bottom wall of said bowl.
9. The head according to claim 1-8 wherein said bowl is provided with a side wall or skirt made from a plastics material.
10. The head according to claim 1-9 wherein said bowl includes a lid made of plastics material.
11. The head according to claim 10 wherein said lid and said side wall of said bowl are relatively configured to snap fitting together.
12. The head according to claim 10 wherein said lid and said side wall are formed as a single integral unit adapted to be fixed to said bottom wall.
13. The head according to any one of claims 9-12 wherein said side wall of said bowl is fixed to bottom wall by integrally moulding said side wall with the bottom wall.
14. The head according to any one of claims 10-13 wherein said lid is shaped to form a receptacle when said bowl is inverted for collecting the ground charge.
15. A bowl for a grinding head, said bowl including at least:  
a side wall or skirt made from a plastics material having first and second axial ends; and,  
a base plate forming a bottom wall of said bowl against which a charge of material

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can be ground, said base plate coupled to said second axial end of said side wall or skirt.

- 5 16. The bowl according to claim 15 wherein said lid and said side wall of said bowl are relatively configured to snap fitting together.
17. The bowl according to claim 15 or 16 wherein said lid is made of plastic material.
- 10 18. The bowl according to any one of claims 15-17 wherein said lid and said side wall of said bowl are formed as a single integral unit.
19. The bowl according to any one of claims 15-18 wherein said lid is provided with a dome or other receptacle for holding a ground charge in said bowl when said bowl is inverted.
- 15 20. A base plate for a bowl of a grinding head, the base plate adapted for attachment to a side wall of the bowl and provided on one side with a boss for driving a grinder ring locatable over the boss.

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